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Approved For Release 2004/08/25 : CIA-RDP78B04770A000600010013-2

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for files

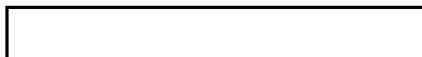
7 April 1965

*MDW
7 Apr 65*

MEMORANDUM FOR: Chief, Development Branch, P&DS

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ATTENTION:



SUBJECT: Evaluation of [redacted] 24 March 1965,
"A Study and Experimental Investigation of
Electrophotographic Techniques." Project #99820-5

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1. This proposal is well-written; it indicates that the writer is fairly well acquainted with the technique he proposes to research. I feel that he is charging over ground already charged over by [redacted] but there may be some minor emphasis I have missed.

2. I agree with the method of image assessment -- fidelity defect. This is currently being used by [redacted] in evaluating coherent enlargers, and by [redacted] (SPPL) in a study of image quality following successive printings. It is reasonably easy to calculate for simple images, and generally follows subjective judgements of quality.

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3. The writer has made several errors, not serious. On page II-9, he treats spatial frequencies, but in reality is talking of spatial details in the photograph. These are certainly related to spatial frequencies, but so is the gross detail. I think he might have difficulty using the same sentences if this change of meaning were forced upon him.

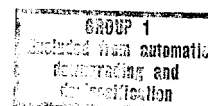
4. The reader is promised that this research program will result in blur-correction techniques. Nowhere is he treated to a discussion of how blur affects contrast and how the spread function of this blur will be corrected, changed, amended, or what have you. I felt like someone was dangling a carrot in front of me, and pulling it away each time I was ready to take a bite. I don't know whether or not this was deliberate, resulted from a lack of sufficient arguments or knowledge, or was a red-herring accidentally dragged across the path. I certainly would suggest we ask them specifically to define how they propose to de-blur images. At least define what it is they mean by a blurred image.

5. I feel the proposal represents a program which could be adequately carried out by the proposed personnel. I also feel that a more detailed

NGA Review Complete

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statement of the problem, with respect to blur correction, is needed.
I further think they should discuss the principle and how
their proposed program differs from that technique.

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Chief, Exploratory Development Laboratory Branch
P&DS

Attachment:

Proposal #915908-B

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Budgetary estimates for Image Processing Study and
Frequency Analyzer.

This estimate is divided into three parts. These are:

1. Photographic processing study, including electronic support.
2. Electronic processing study.
3. Frequency analyzer,
 - a. concurrent with above.
 - b. separate from above.

The parts are inter-dependent with regard to design in some cases so that performance of one part only, without the others will result in somewhat higher cost than if all are pursued together.

1. Photographic processing study, including electronic support.

CRT assembly
Lenses and supports
Other purchased or rented equipment

Engineering labor 24 mm
Supporting engineering labor 3 mm
Photo tech. and other

Total at engineering level
Total at sales level

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2. Electronic Processing Study.

2 CRT assemblies, high resolution

3 lenses

Other purchased equipment

Engineering labor 21 mm

Tech. and model shop 12 mm

Total at engineering level

Total at sales level

3. Frequency analyzer.

a. Concurrent with above programs.

Parts

Engineering labor 3 mm

Total at engineering level

Total at sales level

b. Not concurrent with above program

Parts

Engineering labor 8 mm

Tech. 2 mm

Total at engineering level

Total at sales level

Miscellaneous

Reports

10 trips

Consultants

Total at engineering level

Total at sales level

It should be noted that the above estimates are for demonstration equipment, and not delivered operational equipment.